In the claims:

- 1. (currently amended) A stator for an electrical machine, in particular a rotary current generator, in which the stator (36) is made by the flat-packet technique and comprises at least one stator iron (10, 30) and the stator iron (10) has a substantially annular-cylindrical shape, and in which the stator iron (10) has an axial direction (a) which is oriented in the direction of a cylinder axis, and the stator iron (10) has an end face which is oriented in the direction of the cylinder axis and defines a slot area (A_{Nut}), characterized in that wherein a ratio A formed of the slot area (A_{Nut}) and the end face area amounts to between 0.4 and 0.8, wherein the stator iron (10, 30) has a number of individual laminations (13) which are stacked one above the other, and also has two face ends (22) which rest directly against one another.
- 2. (currently amended) The stator as defined by claim 1, eharacterized in thatwherein the ratio A is between 0.4 and 0.7.
- 3. (currently amended) The stator as defined by claim 1, characterized in that wherein the stator iron (10) has forty- eight inner teeth (19), and the ratio A amounts to between 0.45 and 0.70.

- 4. (currently amended) The stator as defined by claim 3, characterized in that wherein the ratio A is between 0.45 and 0.60.
- 5. (currently amended) The stator as defined by claim 1, characterized in that wherein the stator iron (10) has thirty-six inner teeth (19), and the ratio A amounts to between 0.4 and 0.6.
- 6. (currently amended) The stator as defined by claim 5, characterized in that wherein the ratio A is between 0.40 and 0.55.
- 7. (currently amended) The stator as defined by claim 1, characterized in that wherein thea slot fill factor (F) amounts to between 50% and 80%.
- 8. (currently amended) The stator as defined by claim 7, characterized in thatwherein the slot fill factor F amounts to between 60% and 70%.
- 9. (currently amended) The stator as defined by claim 1, eharacterized in that wherein a slot (25) has a contour which is defined toward the yoke by diametrically opposed tooth sides (59) and a yoke contour (62), and the tooth sides (59) of a slot (25) have a maximum spacing (b_{z3}) from one another in the circumferential direction; and that a

slot pitch (τ_3) is the spacing between two directly adjacent tooth centers of the stator iron (10) at the diameter of the maximum spacing (b_{z3}), where (c3), which is a ratio formed of a spacing (b_{z3}) toward a yoke and the slot pitch (τ_3) at the yoke, amounts to between 0.45 and 0.65.

- 10. (currently amended) The stator as defined by claim 1, eharacterized in that wherein a slot (25) has a contour which is defined toward the tooth head by diametrically opposed tooth sides (59) and tooth head contours (62), and the tooth sides (59) of a slot (25), at the transition to the tooth head contours (65), have a spacing (b_{z2}) from one another in the circumferential direction; and that a slot pitch (τ_2) is the spacing between two directly adjacent tooth centers at the diameter of the spacing (b_{z2}) of the stator iron (10), and where (c2), which is a quotient of a slot width toward a tooth head and a slot pitch (τ_2) at a tooth, amounts to between 0.45 and 0.65.
- 11. (currently amended) The stator as defined by claim $4\underline{10}$, characterized in that wherein (c2) amounts to between 0.50 and 0.60 and (c3), which is a ratio formed of a spacing (b_{z3}) toward a yoke and the slot pitch (T_3) at the yoke, amounts to between 0.47 and 0.60.
- 12. (currently amended) The stator as defined by claim 1, characterized in that wherein the tooth sides (59) change over by means of

rounded transitions to the-tooth head contours (65) and thea yoke contour (62), and the radii amount to between 0.3 mm and 2.0 mm.